MULTIMEDIA UNIVERSITY

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2015/2016

BCN 2314 – COMPUTER NETWORK & INTERNET COMPUTING

(All sections / Groups)

2 MARCH 2016
2.30 PM – 4.30 PM
(2 Hours)

INSTRUCTIONS TO STUDENTS

1. This question paper consists of 7 pages including this cover page with 2 sections.
2. Answer **ALL** questions in Section A and Section B.
   Marks and distribution of the marks for each question is given.
3. Answers should be written in the question paper itself.

Part A – Answer ALL questions.

There are only 2 questions in this section which carries 60 marks. Answer the question in this question paper itself.

Question 1

a. List the five layers of the Internet protocol stack from top to bottom and explain the principle responsibilities of each layer? (15 marks)

b. What are the two most important network-layer functions in a datagram network? What are three important network-layer functions in a circuit switched network? (15 marks)

Answer:

Continued .....

Answer:

Continued .....

Question 2

a. Two companies consider pooling resources to perform a joint venture. The CEO of the first company meets with his legal team, and the legal team consults a number of middle managers in the proposed product area. Meanwhile, the CEO of the first company sends an email to the CEO of the second company to offer a couple suggestions concerning the joint venture. Does this scenario follow the OSI model? Explain.

(15 marks)

b. Someone decided that seven layers in the OSI model is too much. You have been asked to reduce the number to four layers. Which layers would you eliminate? Of those layers eliminated, should the functions provided by those layers be placed in some other layers? If yes, which layers?

(15 marks)

(TOTAL: 60 marks)

Answer:

Continued .....

Answer:

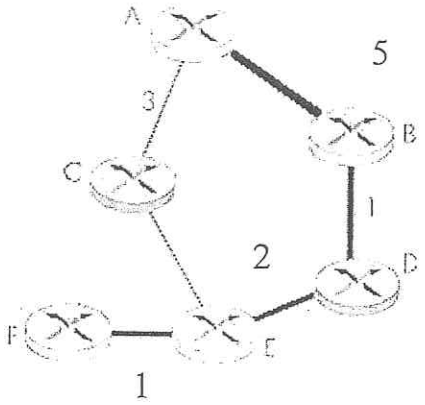
Continued.....

Part B – Answer ALL questions.

There is only 1 question in this section which carries 40 marks. Answer the question in this question paper itself. Fill up the table given below.

Question 1

Figure below provides communication costs in a network, using Dijkstra's algorithm compute the shortest paths from **A** to **F**, with their respective costs



(TOTAL: 40 marks)

Answer:

step	N	D(B),p(B)	D(C),p(C)	D(D),p(D)	D(E),p(E)	D(F),p(F)

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